

KEYNOTE SPEAKER: Dr. Paul Simon



**Professor at Southern Illinois University
Director of the Public Policy Institute at SIU
Retired U.S. Senator from Illinois**

Paul Simon is a professor at Southern Illinois University, where he teaches classes in political science, history and journalism. He joined SIU's faculty in 1997, just weeks after retiring from the U.S. Senate. Simon makes his home in tiny Makanda, Ill. (population 402), and teaches at the nearby SIU Carbondale campus. He also teaches from time to time at SIU's campus in Edwardsville.

In addition, Simon is founder and director of the Public Policy Institute at the Carbondale campus. The Institute opened its doors in 1997 and promises to "find new ways of solving some very old problems," said Simon.

Simon holds 55 honorary degrees and has written 19 books including *Tapped Out: The Coming World Crisis in Water and What We Can Do About It*, 1998.

More autobiographical information may be found on our web page at: <http://tnawra.er.usgs.gov/SimonAutoBio.html>

Timetable

Accommodation Reservations:
Please make room reservations* by
March 1, 2003

Preregistration for Symposium:
Before March 27, 2003

Symposium Dates:
April 9-11, 2003

Symposium Location:
Montgomery Bell State Park
P.O. Box 39 (off Hwy 70)
Burns, TN 37029

*A block of rooms at the Montgomery Bell Inn and some cabins have been reserved. Inn rooms are \$70, cabins (2 bedrooms) are \$60, and suites are \$180 per night plus tax. When making your reservations, please specify that your room be reserved under "AWRA". For reservations call (615) 797-3101 or (800) 250-8613.

Directions to park:
For detailed directions to the park, please visit:
<http://tnawra.er.usgs.gov/symposium.htm#6>

This is an ideal chance for you to bring your family and enjoy the park. Cabins are available.

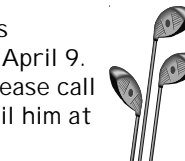
*****Special Events*****

Golf Tournament. The tournament is scheduled for 7:30am the morning of April 9. To sign up or for more information, please call Randy Kerr at (865) 632-7061 or email him at rkerr@tna.gov.



**Fun Run-sponsored by
P.E. LaMoreaux & Associates, Inc.**
A morning jog is scheduled for April 10 at 7am. If you are interested, please call Barry Beck at (865) 483-7483 x101

**Live
Entertainment at
both dinners.**



Thirteenth Tennessee Water Resources Symposium Registration Form

Name _____ (Mr., Ms., Dr.) _____
Title _____
Organization _____
Address _____
City, State, Zip _____
Daytime Phone _____
Email Address _____

Send Registration to:
TN AWRA
c/o U.S. Geological Survey
640 Grassmere Park, #100
Nashville, TN 37211
ATTN: Lori R. Crabtree
Phone: (615) 837-4720
FAX: (615) 837-4799
Email: crabtree@usgs.gov

Please circle one: Visa _____ Mastercard (not recommended to email) _____
Credit Card # _____ Exp. _____
Signature _____

Pre-registration fee is \$100 until March 27, 2003. on-site registration fee is \$120. Student registration is \$30. A 10% discount applies if 10 or more people register from one organization. Make check payable to "Tennessee AWRA" or "TNAWRA." Visa and Mastercard are also accepted. The registration fee covers the costs for each registrant's copy of the summary of abstracts and the costs for Thursday's lunch, both dinners, coffee breaks, and 2003-4 membership fees. Additional meals may be purchased for spouses for \$10 each.

APRIL 9

7:30 a.m.

Golf Tournament

10:00 am

Registration in Exhibit Room

Time	Room A: Keynote Speaker		
1:30 pm	Dr. Paul Simon, Professor, Southern Illinois University at Carbondale		
3:00 pm	Coffee Break in Exhibit Room <i>co-sponsored by Stevens Water Monitoring and Barge Waggoner Sumner & Cannon</i>		
3:30 pm	Session 1A (Room A)	Session 1B (Room B)	Session 1C (Room C)
	Water Supply and Policy Moderator: David Norwood, BWSC	Urban Watershed Moderator: Tom Lawrence, City of Memphis	Flood Frequency Moderator: Robert Hunt, USACE
	Regional Water Systems in General-- Water Authority of Dickson County Specifically. <i>D.E. Lunn</i>	Franklin Tennessee Urban Stormwater Program. <i>D. Green</i>	Automation for Field Data Collection. <i>S. Noe</i>
4:00 pm	Wayne, Lewis, and Lawrence Counties, TN--Regional Water Supply Study " A Regional Approach to Rural Water Supply". <i>C. Popplewell</i>	Sometimes it Takes More Than a Village: The Continuing Restoration and Reclamation of Citico Creek. <i>D. Fritz</i>	Flood Frequency of Unregulated Streams of Tennessee, 2000. <i>G. Law</i>
4:30 pm	Using Geographic Information Systems to Support Water Supply Policy Development. <i>E. Heinrich</i>	A Better Approach to Storm Water Management by Maintaining Surface- and Ground-Water Interaction. <i>M. Lighthiser</i>	Evaluating Potential Changes in Regulated Flow Frequency in the Tennessee Valley. <i>M. Eiffe</i>
5:00 pm	Tennessee's Water Supply Agenda-- Under New Management. <i>D. Galbreath</i>	No session	No session
6-8 pm	Dinner at Group Camp 1 with Live Entertainment		

APRIL 10

7:00 am

Fun Run starts outside Mezzanine *sponsored by P.E. LaMoreaux & Associates, Inc.*

7:30 am

Coffee and biscuits in Exhibit Room *sponsored by the Ground Water Institute, The University of Memphis*

8:00 am

Registration in Exhibit Room

Time	Session 2A (Room A)	Session 2B (Room B)	Session 2C (Room C)
8:30 am	Water Supply and Policy (cont.) Moderator: David Feldman, UT	Urban Watershed (cont.) Moderator: Doug Fritz, City of Chattanooga	Ground Water Moderator: Jack Carmichael, USGS
	Re-Evaluating the Adequacy of Water Supplies in the Duck River. <i>B. McCrodden</i>	Web Enabled Water Management Program Designed for Water Quality and Quantity Issues. <i>V. Young</i>	Ground-Water Quality at Germantown. <i>M. Bradley</i>
9:00 am	Lower Mississippi River Resource Assessment. <i>C. Sundeen</i>	Testing the Chemical Perturbation Index in a Mixed Land-Use Knoxville Stream. <i>B. Jolly</i>	Water Quality of Shallow Ground Water in the Memphis Area. <i>J. Kingsbury</i>
9:30 am	Concepts for National Assessment of Water Availability and Use with Implications for Tennessee. <i>S. Gain</i>	Getting to the Source: Microbial Source Tracking in an Urban Stream. <i>T. Lawrence</i>	Groundwater Chemistry - A Comparative Evaluation of Population Statistics and Hydrochemical Relationships between Quaternary and Tertiary Sand Aquifers in West Tennessee. <i>R. Curtis</i>
10:00 am	Coffee Break in Exhibit Room <i>co-sponsored by Barge Waggoner Sumner & Cannon</i>		
10:30 am	Water Supply and Policy (cont.) Moderator: Tom Allen, Neel-Schaffer, Inc.	Source Water Protection Moderator: Scott Gain, USGS	Ground Water (cont.) Moderator: Jerry Anderson, GWI
	Resolving Water Disputes: Citizen and Decision-Maker Perspectives. <i>A. Routhe</i>	Source Water Protection. <i>L. Lewis</i>	Use of Lumped Parameter Models for Wellhead Protection Delineation. <i>S. Ivey</i>
11:00 am	Huntsville Utility District Raw Water Impoundment. <i>S. Bostic</i>	Analysis of Tennessee Public Water Supply Systems' Susceptibility to Contamination. <i>T. Moss</i>	Estimates of Ground-Water Recharge in West Tennessee. <i>J. Carmichael</i>
11:30 am	Comparison of the EPA Groundwater Classification System and the Tennessee Groundwater Classification System at an RCRA Corrective Action Site. <i>J. Pintenich</i>	Assessing the Vulnerability of the Shallow Aquifer to Contamination in Tipton County, Tennessee. <i>M. Embry</i>	Ground Water Tracing and Water Quality Results for Springs in Rutherford County, Tennessee. <i>A. Ogden</i>
Noon	Lunch		

APRIL 10 (continued)

Time	Session 2A (Room A)	Session 2B (Room B)	Session 2C (Room C)
1:30 pm	Stream Ecology and Water Quality Moderator: Jenny Adkins, NRCS	Runoff Modeling Moderator: Mike Eiffe, TVA	Hydrologic Conditions Moderator: Mike Bradley, USGS
	Long Term Road Construction Impacts on Water Quality and Fish Communities in South Indian Creek. <i>T. Holt</i>	Use of Radar-Rainfall Data for Hydrologic Modeling in Middle Tennessee. <i>E. Habib</i>	Simulating 148 Years of Hydrological Record to Evaluate Ecological Change in a Forested Wetland. <i>B. Wolfe</i>
2:00 pm	Watershed Land Use Affects Primary Production, Community Respiration, and Nutrient Cycling in Streams: Results of a Comparative Study of Streams at Ft. Benning, Georgia. <i>J. Houser</i>	Downscaling Parameters from a Large Watershed to its Subwatersheds: Modeling the Hydrology of Emory River, Crooked Fork, and Daddy's Creek Using the Loading Simulation Program C+++. <i>B. Arthur</i>	Hydrologic Conditions in Tennessee in 2002. <i>P. Hampson</i>
2:30 pm	Short Term Responses of Eastern and Middle Tennessee Warmwater Stream Fish Communities to Culvert and Bridge Construction. <i>S. Cook</i>	Use of UNET and HEC-RAS in St. John and New Madrid Floodway Control Simulation. <i>L. YuLin</i>	Complex Channel Evolution in Drainage Canals of West Tennessee and North Mississippi. <i>T. Diehl</i>
3:00 pm	Coffee Break in Exhibit Room <i>sponsored by the Water Resources Research Center, UTK</i>		
3:30 pm	Industrial Biotechnology Moderator: Susan Jacks, TVA	Runoff Modeling (cont.) Moderator: Sherry Wang, TDEC	Resource Restoration Moderator: Dan Eagar, TDEC
	Application of Compound-Specific Stable Isotope Analysis (CSIA) to Environmental Problems. <i>M. Uhle</i>	Recent Memphis District Progress in Performing Continuous Hydrologic Simulation. <i>R. Hunt</i>	Wolf River Restoration. <i>R. Hite</i>
4:00 pm	Fate and Transport of Coal Tar Contamination in Chattanooga Creek Floodplain. <i>V. Vulava</i>	Impervious Surface Map of Part of the Stones River Watershed, Tennessee. <i>M. Abolins</i>	Drakes Creek Ecosystem Restoration Project, Hendersonville, Tennessee. <i>W. Easterling</i>
4:30 pm	Evaluating Structural BMPs at TDOT Regional Facilities with Reference to the Phase II Storm Water Regulations. <i>R. Bowers</i>	The Effects of DEM Grid Size, Terrain, and Watershed Area on Estimates of Average Watershed Slope. <i>J. Hill</i>	The Alchemy of Stream Restoration: Impaired Stream to a Thing of Beauty--The Nature Conservancy's Big Rock Creek Project, Year 1. <i>L. Colley</i>
5:30 pm	Poster Session in the Mezzanine. Poster presenters will be available for questions at this time. Best student poster award will be presented at dinner.		
6:00 pm	Dinner in Room A with Live Entertainment. The TN Section AWRA Business Meeting will commence at 7:30 p.m.		

APRIL 11 7:30 am Coffee and biscuits in the Exhibit Room *co-sponsored by Barge Waggoner Sumner & Cannon*

Time	Session 3A (Room A)	Session 3B (Room B)	Session 3C (Room C)
8:30 am	Biotechnology R and D Moderator: Larry McKay, UT	Ecological Resources Moderator: Jeff Powell, USGS	Education Moderator: Jack Gordon, TTU (<i>ret.</i>)
	Validation of a Real-time PCR Method for the Quantification of E.coli in Surface Water. <i>A. Layton</i>	Evaluation of Abandoned Commercial Sand and Gravel Dredge Sites on the Lower Tennessee River. <i>D. Hubbs</i>	Gathering the Waters of Tennessee Springs Monitoring Program - Preliminary Model for Groundwater Education. <i>L. Lyle</i>
9:00 am	Source Tracking with Antibiotic Resistance Analysis. <i>W. Hamilton</i>	Working with Private Landowners to Protect Habitat for the Rare Barrens Topminnow (<i>Fundulus julisa</i>). <i>B. Bingham</i>	Promoting the Involvement of Water Resource Professionals in Environmental Education. <i>D. Ball</i>
9:30 am	Comparison of Multiple Antibiotic Resistance and Carbon Utilization Patterns to Determine Sources of Fecal Enterococci in the Duck River. <i>P. Ihrie</i>	Toxicity Reduction by Use of Constructed Wetlands Treatment. <i>J. Orr</i>	Signs and Cards: Educating Construction Site Workers about Pollution Prevention. <i>K. Moskal</i>
10:00 am	Coffee Break in Exhibit Room		
10:30 am	Applied Biotechnology Moderator: Bill Hamilton, VU	Wastewater Management Moderator: John McClurkan, TDA	Education (cont.) Moderator: Leslie Colley, The Nature Conserancy
	Statistical Analysis of Bacteria Data Collected from the Nonconnah Creek and Wolf River Systems, Memphis, TN. <i>D. Hudgins</i>	Rainfall Patterns and the Incidence of <i>Escherichia coli</i> in an East Tennessee Watershed. <i>F. Walker</i>	A Water Resources Almanac for the Memphis District. <i>R. Hunt</i>
11:00 am	The Evaluation of Selected Chemical and Biological Parameters Associated with the Sinking Creek TMDL. <i>D. Dulaney</i>	EPA's CAFO Regulations and Their Potential Impact on Tennessee's Livestock and Poultry Industry. <i>C. Goan</i>	Partnering for Student Stream Monitoring Yields More Than Data. <i>C. Harden</i>
11:30 am	Development of Bacterial Source Tracking Methods for the Duck River Watershed. <i>J. Farmer</i>	Center for Decentralized Wastewater Management. <i>J. Buchanan</i>	Converting Complaints to Implemented Solutions. <i>J. Albee</i>

Thirteenth Tennessee Water Resources Symposium

Montgomery Bell State Park
Burns, Tennessee
April 9-11, 2003

Sponsored by

Tennessee Section of the American Water Resources
Association

In cooperation with

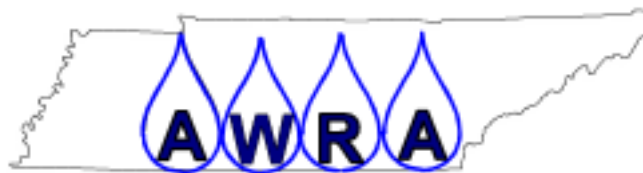
- ❖ City of Chattanooga, Stormwater Management
- ❖ Neel-Schaffer, Inc.
- ❖ Tennessee Department of Agriculture
- ❖ Tennessee Department of Environment and Conservation
- ❖ Tennessee Technological University, Water Center
- ❖ Tennessee Valley Authority
- ❖ University of Tennessee
- ❖ U.S. Geological Survey, Water Resources

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- Ground Water Institute, The University of Memphis
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Exhibitors

- Biohabitats, Inc.
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- Regenesis Bioremediation Products
- Stevens Water Monitoring
- Sutron
- University of Tennessee
- U.S. Geological Survey



Registration and Final Agenda

(ATTN Engineers: Opportunity for PDH's/CEU's)

Symposium Chair

Mike Woodside
U.S. Geological Survey
640 Grassmere Park, Suite 100
Nashville, TN 37211
Tel: (615) 837-4706
Email: mdwoods@usgs.gov

Poster Session

Please be sure to attend the Poster Session on Thursday evening at 5:30 p.m. in the Mezzanine where over 25 posters will be presented.

To encourage student participation, TN Section AWRA awards one student poster with a plaque for their university. If you are not affiliated with a university or a student poster presenter and would like to be a judge, please send email to Lori Crabtree at crabtree@usgs.gov.

For a listing of this year's poster presenters, please visit: <http://tnawra.er.usgs.gov/posters03.html>

Sponsors & Exhibitors

Opportunities are still available for your organization to be a sponsor or an exhibitor. For more information, contact Lori Crabtree at (615) 837-4720.

Tennessee Section AWRA
c/o U.S. Geological Survey, WRD
640 Grassmere Park, Suite 100
Nashville, TN 37211

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